

Work Order ID 72595

Page 1

Wednesday, August 03, 2011 1:01:48 PM

Item ID: D117-762-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Replacement Skidtube

Start Date: 8/3/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 8/8/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: 11Date: 11-08-3

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start



Stop



| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|----------|--------------|
|----------|--------------|

| | |
|-------|---|
| D3492 | C |
|-------|---|

| | |
|-------|-------|
| D3582 | Rev A |
|-------|-------|

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPP D117-762-041 CHG001

N/A

120

0.00



BENDING MACHINE - SKIDTUBES

CNC Bend 1

Memo

0.00

CNC Delta 100 Bender

Bend tube as per program D3582 on CNC Bender and Dwg D3582. Folio 3,
use bending aid DT9632
2- cut fwd end of tube as per dwg

1 0 8/11/08/08

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

0.00



Skidtubes

Skidtubes

Memo

0.00

Skidtubes

1-Cut Aft end using DT8185

2-Deburr ends

3-Drill Aft Cap holes using DT8678 ***DO NOT OPEN AFT CAP HOLE***

4-Locate DT 8973 & Drill Ground wire hole on top of Tube.

5-Install 3/16 cleco in Ground wire hole ,then drill all X-Bolt holes using 3/16" drill.

6-Drill pilot holes for wearplates using DT8900

7-Open wearplate holes to Ø19/64" (0.297") as per Dwg D3582.

8- open ground wear holes to 0.391" as per section B-B

9-Open Aft Cap holes using .209" drill.

10-Drill pilot holes for section D-D and E-E. Holes must be laid out by hand. Mark out Center line and make sure that 6.65 and 5.906 measurements are respected. Double check before drilling, do not open holes to finish size.

BE 11/08/09

OK 11/08/11

| W/O: | | WORK ORDER CHANGES | | | | | |
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Customer:




Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|---|---|----------------------|---------|--------|--------------|---------------|---------------|------------------|-----------------------------------|
| 140  Skidtubes | Skidtubes | 0.00 | | | | | | | |
| Skidtubes | Memo | 0.00 | | | | | | | |
| Skidtubes | 1-Weld fwd cap D2964 per dwg D3582 and QSI 004 A/R AL ROD Batch: <i>M112260/M 115778 BE 11/08/11</i> 2-Grind flush <i>BE 11/08/11</i> | | | | | | | | |
| 150  QC | QC10- Inspect visual per QSI004- ground welds | 0.00 | | | | | | | |
| Quality Control | Memo | 0.00 | | | | | | | <i>S u l o s 112</i> |
| 160  QC | QC5- Inspect part completeness to step on W/O | 0.00 | | | | | | | |
| Quality Control | Memo | 0.00 | | | | | | | <i>S u l o s 112</i> <i>80</i> |

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
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NOTE: Date & initial all entries

[illegible]

Page 4

Accept

[illegible]

Setup Start

[illegible]

Stop

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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the team.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete each task.

4. The fourth step is to implement the plan. This involves assigning tasks to team members, setting deadlines, and monitoring progress to ensure that the project is on track.

5. The final step is to evaluate the results of the project. This involves comparing the actual outcomes to the original objectives and goals, and identifying any areas for improvement or further action.

Cust Item ID:

Customer:

Reference:

Run Start

[illegible]

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop

[illegible]

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Operation Description

Set Up/ Run Hours

Tool ID

Tool #

Plan Code

| Accept | Qty |
|--------|-----|
|--------|-----|

Reject
QtyReject
Number

**Insp.
Stamp**

170

Chemical Conversion Coat per QSI005 4.1

0.00

[illegible]

HandFinish

Memo

0.00

Hand Finishing

180

QC3- Inspect Part Finish

0.00

[illegible]

QC

Memo

0.00

Quality Control

11/08/15

11-8-15

| W/O: | | WORK ORDER CHANGES | | | | | |
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Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

190

0.00



Skidtubes

Skidtubes

Memo

0.00

1-Open X-Bolt holes to finish size as per Dwg D3582, all sections

2-Counter Sink X-BOLT holes as per Dwg D3582

3-Deburr and blow out chips from inside of tube, prep. tube for welding.

4-Bond web as per Dwg D3582 & QSI 015

A/R 241 Sike Flex Batch: M117516
Exp Date: 12/01/15

5-Weld x-bolt spacers(D2973) as per Dwg D3582 section B-B.

A/R AL ROD Batch: M112860

6-Grind welds flush

BE 11/08/16

BE 11/08/16

DL 11/08/15

200



QC

Quality Control

QC10- Inspect visual per QSI004- ground welds

0.00

Memo

0.00

8 11/08/17

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

210

QC5- Inspect part completeness to step on W/O

0.00

Sullos/12



QC

Memo

0.00

Quality Control

215

Pressure Wash per QSI005 4.3

0.00



HandFinish

Memo

0.00

Hand Finishing

Touch-up alodine as per QSI

1X Ø M-11/08/23

220

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00



Powdercoat

Memo

0.00

Powder Coating

START TIME

OVEN TEMPERATURE:

FINISH TIME:

*12:00
320 OF
12:30*

1X Ø M-11/08/23

M 11774 S

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

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|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

230

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

1 AR 11-8-25

250

HandFinishing

0.00



HandFinish

Memo

0.00

Hand Finishing

1-Inspect for Foreign objects

2-Install Aft cap as per Dwg D3582 Detail "C"

A/R 241 Sika Flex Batch: 118343
Exp Date: 12-05

3-Install Wearplates as per Dwg D3582 ,

Note: Install Bolt and washer on Ground Wire inserts on top of tube see
section D-D of dwg D3582

*****Do not install bolts where indicated on Dwg(Note #6)*****

A/R 241 Sika Flex Batch: 118343
Exp Date: 12-05

4-assemble o'ring as per dwg D3492 and apply o'ring lube

A/R 55-o'ring lube batch: 14189

5- Wing Walk as per Dwg D3582 and QSI 005 4.4

118313

1 BR 11-8-25

| W/O: | | WORK ORDER CHANGES | | | | | |
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Run Start



Stop



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|--------------------------------|--|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| 260 | QC5- Inspect part completeness to step on W/O | 0.00 | | | | | | | |
| | | | | | | | | | |
| QC | Memo | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |
| 270 | Packaging | 0.00 | | | | | | | |
| | | | | | | | | | |
| Packaging | Memo | 0.00 | | | | | | | |
| Packaging | Identify and pack for shipping as per PPP D117-762-041 | | | | | | | | |
| | Location: _____ | | | | | | | | |
| | PPP Rev: <u>PPP 73207</u> | | | | | | | | |
| 280 | QC21- Final Inspection - Work Order Release | 0.00 | | | | | | | |
| | | | | | | | | | |
| QC | Memo | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

Sulasho

Rec'd 8/16/11

u/a 19 7/8
ME

11-09-16

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
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NOTE: Date & initial all entries

Picklist Print

Wednesday, August 03, 2011 1:01:53 PM

Page 1

Work Order ID: 72595

Parent Item: D117-762-041

Parent Item Name: Replacement Skidtube





Start Date: 8/3/2011

Required Date: 8/8/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A ☐ 07.06.11 ☐ New Issue ☐ EC
IPP Rev:B 08-02-22 change to revA as per dwg DD verified by:EC

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|--|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| D3492-11  Plug | | Manufactured | No | | | 250 | Each | 18.0000 | 2 | 2 | | | |
| <div> <div>Location</div> <div>FP</div> <div>71863 ✓</div> </div> <div> <div>Loc Qty</div> <div>18</div> <div>18</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div> | | | | | | | | | | | | | |
| D3492-13  Plug | | Manufactured | No | | | 250 | Each | 35.0000 | 6 | 6 | | | |
| <div> <div>Location</div> <div>FP</div> <div>71848 ✓</div> </div> <div> <div>Loc Qty</div> <div>32</div> <div>32</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div> | | | | | | | | | | | | | |
| <div> <div>FP-B</div> <div>46693</div> </div> <div> <div>3</div> <div>3</div> </div> <div> <div></div> <div></div> </div> | | | | | | | | | | | | | |
| D3492-9  Plug | | Manufactured | No | | | 250 | Each | 25.0000 | 2 | 2 | | | |
| <div> <div>Location</div> <div>FP-A</div> <div>46694 ✓</div> </div> <div> <div>Loc Qty</div> <div>25</div> <div>25</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div> | | | | | | | | | | | | | |
| D2962-150  3.540 Outer Tube, Extrut | | Manufactured | No | | | | Each | 62.0000 | | 1 | | | |
| <div> <div>Location</div> <div>HALL</div> <div>59934</div> </div> <div> <div>Loc Qty</div> <div>62</div> <div>62</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div> | | | | | | | | | | | | | |

BR 11-8-25.

BR 11-8-25.

BR 11-8-25.

BE 11/08/09

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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 72595

Parent Item: D117-762-041

Parent Item Name: Replacement Skidtube

Start Date: 8/3/2011

Required Date: 8/8/2011

Start Qty: 1.00

Required Qty: 1.00

D2964

Manufactured No

140

Each

11.0000

1

1



Cap



BB 11/08/11

Location

Loc Qty

Loc Code

LG002

11

64654

11

1

D2971

Manufactured No

190

Each

6.0000

1

1



Cross Bolt Spacer



BB 11/08/16

Location

Loc Qty

Loc Code

LG001

6

44445

6

1

D3584-1

Manufactured No

190

Each

0.0000

1

1



Web



DL 11/08/15

D2973

Manufactured No

190

Each

112.0000

2

2



Cross Bolt Spacer



BB 11/08/16

Location

Loc Qty

Loc Code

LG002

112

14636

112

2

D3662-3

Manufactured No

190

Each

7.0000

1

1



Crossbolt Spacer



BB 11/08/16

Location

Loc Qty

Loc Code

LG001

7

44456

7

1

Wednesday, August 03, 2011 1:01:54 PM

Shop Packet Print

Page 2

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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Picklist Print

Page 3

Wednesday, August 03, 2011 1:01:54 PM

Work Order ID: 72595

Parent Item: D117-762-041

Parent Item Name: Replacement Skidtube

Start Date: 8/3/2011

Required Date: 8/8/2011

Start Qty: 1.00

Required Qty: 1.00

D3662-1

Manufactured No

190

Each

3.0000

3

3



Crossbolt Spacer

Location

Loc Qty

Loc Code

LG

3

71799

1

72258

2

Each

2,486.000

36

ALS4-1032-130

Purchased

No



Insert

Location

Loc Qty

Loc Code

ST281

432

117331

8

118386

424

ST282

2054

117717

54

118237

1744

118312

256

Each

501.0000

2

ALS4-428-165

Purchased

No



Inserts

Location

Loc Qty

Loc Code

FP

483

117769

483

FP-B

18

114172

18

Each

0.0000

1

1

D2965

Manufactured

No



Cap, 105 Skidtube

71371



Wednesday, August 03, 2011 1:01:54 PM

Shop Packet Print

Page 3

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Picklist Print

Wednesday, August 03, 2011 1:01:54 PM

Work Order ID: 72595

Parent Item: D117-762-041

Parent Item Name: Replacement Skidtube

Start Date: 8/3/2011

Required Date: 8/8/2011

Start Qty: 1.00

Required Qty: 1.00

D3508-3
Wearplate
Manufactured No 250 Each 1.0000 1 1

Location Loc Qty Loc Code
FP021 72169 1
38527 1

BR 11-8-25.

D3508-9
Wearplate
Manufactured No 250 Each 0.0000 1 1

72203.

BR 11-8-25.

D3558-3
Gasket
Manufactured No 250 Each 11.0000 1 1

Location Loc Qty Loc Code
FP014 11
71651 1
72170 ✓ 10

BR 11-8-25.

D3558-9
Gasket
Manufactured No 250 Each 10.0000 1 1

Location Loc Qty Loc Code
FP014 10
71212 ✓ 10

BR 11-8-25

D3558-11
Gasket
Manufactured No 250 Each 11.0000 1 1

Location Loc Qty Loc Code
FP014 11
72202 ✓ 11

BR 11-8-25.

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

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| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Picklist Print

Wednesday, August 03, 2011 1:01:54 PM

Page 6

Work Order ID: 72595

Parent Item: D117-762-041

Parent Item Name: Replacement Skidtube

Start Date: 8/3/2011

Required Date: 8/8/2011

Start Qty: 1.00

Required Qty: 1.00

AN3C4A Purchased No 250 Each 1,894.000 28 28



BOLT



BK 11-8-25.

| <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |
|----------------------|----------------|-----------------|
| ST350 <i>118628.</i> | 1894 | <i>28.</i> |
| 117313 | 2 | |
| 117688 | 167 | |
| 117795 | 163 | |
| 117872 | 22 | |
| 118012 | 500 | |
| 118112 | 40 | |
| 118451 | 1000 | |

AN3C5A Purchased No 250 Each 1,459.000 2 2



Bolt



BK 11-8-25.

| <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |
|-----------------|----------------|-----------------|
| FP-A | 7 | |
| 115835 | 7 | |
| ST350 | 1452 | |
| 116419 | 28 | |
| 116549 | 42 | |
| 117343 ✓ | 500 | <i>2</i> |
| 117764 | 300 | |
| 117872 | 82 | |
| 118451 | 500 | |

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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| | | | | | | | | |

NOTE: Date & initial all entries

Picklist Print

Wednesday, August 03, 2011 1:01:54 PM

Page 7

Work Order ID: 72595

Parent Item: D117-762-041

Parent Item Name: Replacement Skidtube

Start Date: 8/3/2011

Required Date: 8/8/2011

Start Qty: 1.00

Required Qty: 1.00

AN960JD416L NAS1149D0416J Purchased

No

250

Each

19.0000

2

2



Washer



BR 11-8-25

Location

Loc Qty

Loc Code

FP-B

17

110153 ✓

17

2

ST298

2

110153

2

AN960C10L NAS1149C0332 ✓ Purchased

No

250

Each

0.0000

28

28



washer



28.

BR 11-8-25

118300.

AN4-4A Purchased

No

250

Each

70.0000

2

2



Bolt



BR 11-8-25

Location

Loc Qty

Loc Code

FP-B

24

114615 ✓

24

2

ST356

46

114615

46

NAS1611-012 Purchased

No

250

Each

90.0000

6

6



O-RING



BR 11-8-25

Location

Loc Qty

Loc Code

FP

80

118384 ✓

80

6.

FP-A

10

113845

10

Wednesday, August 03, 2011 1:01:54 PM

Shop Packet Print

Page 7

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

Picklist Print

Wednesday, August 03, 2011 1:01:54 PM

Page 8

Work Order ID: 72595

Parent Item: D117-762-041

Parent Item Name: Replacement Skidtube

Start Date: 8/3/2011

Required Date: 8/8/2011

Start Qty: 1.00

Required Qty: 1.00

NAS1611-015

Purchased

No

250

Each

131.0000

2

2



O-RING



BR 11-8-05

Location

Loc Qty

Loc Code

FP-A

131

115101

85

116081 ✓

46

2

NAS1611-016

Purchased

No

250

Each

84.0000

2

2



O-RING



BR 11-8-05

Location

Loc Qty

Loc Code

FP-A

84

112492 ✓

58

113524

26

2

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
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| | | | | | | | | |

NOTE: Date & initial all entries

PARTS LIST FOR D3582-041 SKIDTUBE ASSEMBLY

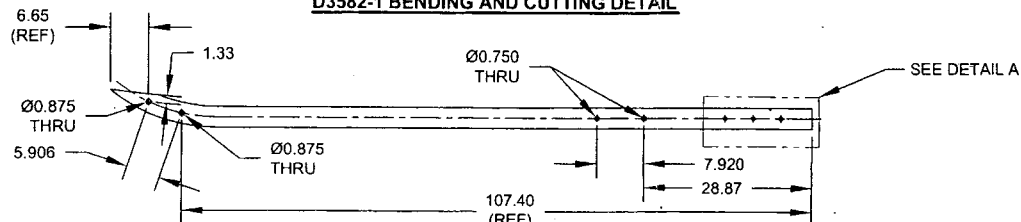
| Qty | Part Number | Description |
|-----|---------------|-------------------|
| X | D3582-041 | SKIDTUBE ASSEMBLY |
| 1 | D2962-150 | EXTRUSION |
| 1 | D2964 | CAP |
| 1 | D2965 | CAP |
| 1 | D2971 | CROSS BOLT SPACER |
| 2 | D2973 | CROSS BOLT SPACER |
| 2 | D3492-049 | PLUG ASSEMBLY |
| 2 | D3492-051 | PLUG ASSEMBLY |
| 6 | D3492-053 | PLUG ASSEMBLY |
| 1 | D3508-3 | WEARPLATE |
| 1 | D3508-9 | WEARPLATE |
| 1 | D3508-11 | WEARPLATE |
| 1 | D3508-13 | WEARPLATE |
| 1 | D3558-3 | GASKET |
| 1 | D3558-9 | GASKET |
| 1 | D3558-11 | GASKET |
| 1 | D3558-13 | GASKET |
| 1 | D3584-1 | WEB |
| 3 | D3662-1 | CROSS BOLT SPACER |
| 1 | D3662-3 | CROSS BOLT SPACER |
| 36 | AELS-1032-130 | INSERT |
| 2 | ALS7-428-165 | INSERT |
| 28 | AN3C4A | BOLT |
| 2 | AN3-5A | BOLT |
| 2 | AN4-4A | BOLT |
| 28 | AN960C10L | WASHER |
| 2 | AN960JD10L | WASHER |
| 2 | AN960JD416L | WASHER |

GENERAL NOTES:

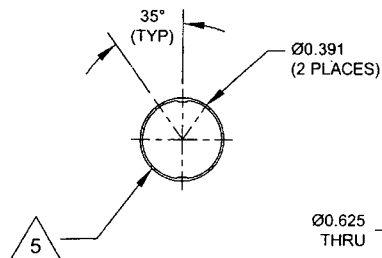
- ALL DIMENSIONS ARE IN INCHES
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- WELDING TO BE DONE PER DART QSI 004.
- INSERT D3584-1 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/-291 ADHESIVE PER DART QSI 015 AFTER BENDING.
- USE DART DRILL TEMPLATE DT8900 TO LOCATE AND DRILL Ø0.297 HOLES (36 PLACES) FOR WEARSHOE INSERTS. INSTALL AELS-1032-130 PER SECTION G-G (36 PLACES) AFTER FINISH. SEAL WEARPLATE BOLTS WITH SIKAFLEX-241/-291.
- DO NOT INSTALL AN3C4A BOLTS AND AN960C10L WASHERS IN INDICATED LOCATIONS.
- FINISH:
 - CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIOR TO INSERTING D3584-1 WEB.
 - POWDER COAT ASSEMBLY GLOSS WHITE (REF 4.3.5.1) PER DART QSI 005 4.3.
 - ANTI-SKID PAINT AS INDICATED TO 1.00 ABOVE CENTER LINE PER DART QSI 005 4.4



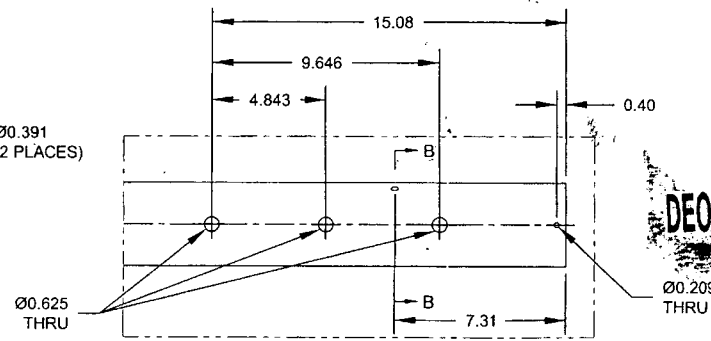
D3582-1 BENDING AND CUTTING DETAIL



D3582-1 DRILLING DETAIL



SECTION B-B
SCALE 1:5



DETAIL A
SCALE 1:5

DEO ATTACHED

RELEASED
07.11.27

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

NO. 72895

11-08-3

| REV. | DESCRIPTION | PH | DATE |
|------------|-------------|------|----------|
| A | NEW ISSUE | PH | 07.06.08 |
| DESIGN | BY | DATE | |
| DRAWN | BY | DATE | |
| CHECKED | BY | DATE | |
| MFG. APPR. | BY | DATE | |
| APPROVED | BY | DATE | |
| DE APPR. | BY | DATE | |
| DATE | 07.06.08 | | |

DART AEROSPACE USA, INC
PORT HADLOCK, WA
DRAWING NO. D3582
REV. A
SHEET 1 OF 2
TITLE BK 117 SKIDTUBE ASSEMBLY
SCALE 1:20
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| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

8 7 6 5 4 3 2 1

D2964 CAP
(GRIND FLUSH)

DETAIL C
SCALE 1:10

D2971 SPACER

AFTER FINISH
INSTALL,
D3492-049
PLUG ASSEMBLY
(2 PLACES)

SECTION D-D
SCALE 3:10

AFTER FINISH
INSTALL,
D3492-051
PLUG ASSEMBLY
(2 PLACES)

SECTION E-E
SCALE 3:10

D3662-3 SPACER

SECTION D-D NOTES

AFTER BENDING AND DRILLING ASSEMBLY
PERFORM THE FOLLOWING:

1. CHAMFER HOLE 0.030 x 45°
2. INSERT D2971 SPACER
3. WELD INTO PLACE AND GRIND FLUSH
4. PASS Ø0.750 DRILL TO REMOVE SPILL OVER
5. AFTER FINISH, INSTALL D3492-049 PLUG ASSEMBLY (2 PLACES)

SECTION E-E NOTES

AFTER BENDING AND DRILLING ASSEMBLY
PERFORM THE FOLLOWING:

1. CHAMFER HOLE 0.030 x 45°
2. INSERT D3662-3 SPACER
3. WELD INTO PLACE AND GRIND FLUSH
4. PASS Ø0.672 DRILL TO REMOVE SPILL OVER
5. AFTER FINISH, INSTALL D3492-051 PLUG ASSEMBLY (2 PLACES)

D2973 SPACER
(2 PLACES)

SECTION F-F
SCALE 3:10

SECTION F-F NOTES

AFTER BENDING AND DRILLING ASSEMBLY
PERFORM THE FOLLOWING:

1. CHAMFER HOLE 0.030 x 45°
2. INSERT D2973 SPACER (2 PLACES)
3. WELD INTO PLACE AND GRIND FLUSH
4. PASS Ø0.625 DRILL TO REMOVE SPILL OVER

D3584-1 WEB (REF)

D3662-1 SPACER
(3 PLACES)

AFTER FINISH, INSTALL
AELS-1032-130
INSERT (36 PLACES)

AN3C4A BOLT (1)
AN960C10L WASHER (1)
(28 PLACES)

SECTION G-G
SCALE 3:10

SECTION G-G NOTES

AFTER BENDING AND DRILLING ASSEMBLY
PERFORM THE FOLLOWING:

1. CHAMFER HOLE 0.030 x 45°
2. INSERT D3662-1 SPACER (3 PLACES)
3. WELD INTO PLACE AND GRIND FLUSH
4. PASS Ø0.515 DRILL TO REMOVE SPILL OVER
5. AFTER FINISH, INSTALL D3492-053 PLUG ASSEMBLY (6 PLACES)

AFTER FINISH, INSTALL
ALS7-428-165 INSERT (1)
AN4-4A BOLT (1)
AN960JD416L WASHER (1)
(2 PLACES)

AFTER FINISH
INSTALL,
D3492-053
PLUG ASSEMBLY
(6 PLACES)

DETAIL C

D3558-9
D3508-9

NO BOLTS AT
THESE LOCATIONS

6

D3558-3

D3558-11

D3508-3

D3508-11

D3582-041 ASSEMBLY DETAIL

DETAIL H

D3558-13

D3508-13

NO BOLTS AT
THESE LOCATIONS

6

BLACK ANTI-SKID

8.0

16.2

BLACK ANTI-SKID (TYP)

58.4

16.0

5.0

0.8

D3582-041 BLACK ANTI-SKID DETAIL

72595

DEO ATTACHED

D3584-1 WEB
(REF)

4 7

SEAL WITH
SIKAFLEX -241/-291

D2965 CAP

DETAIL H
SCALE 1:5

RELEASED

| | | | |
|------------|----------|--|--------------|
| DESIGN | PH | DART AEROSPACE USA, INC | |
| DRAWN | PH | PORT HADLOCK, WA | |
| CHECKED | PH | DRAWING NO | REV. A |
| MFG. APPR. | PH | D3582 | SHEET 2 OF 2 |
| APPROVED | PH | TITLE | SCALE |
| DE APPR. | PH | BK 117 SKIDTUBE ASSEMBLY | 1:20 |
| DATE | 07.06.08 | COPYRIGHT © 2007 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC | |

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

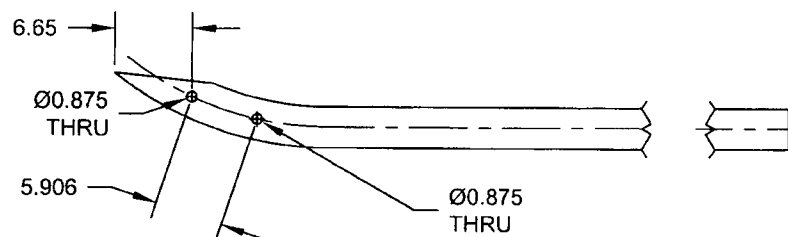
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|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

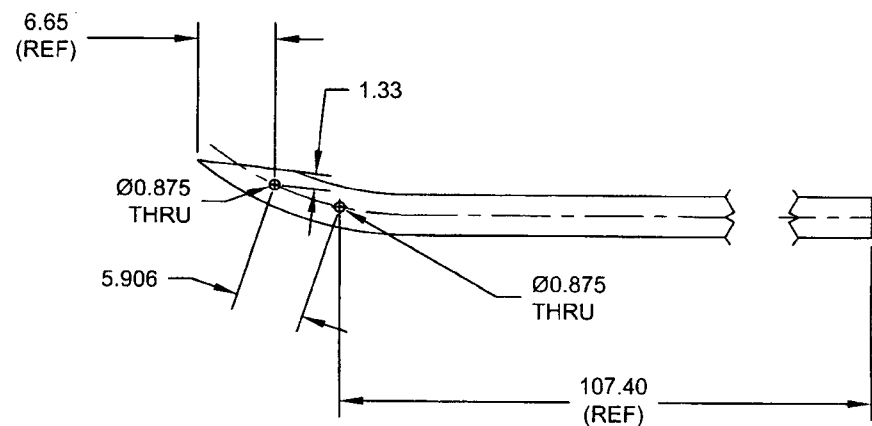
| | | | | | | | |
|----------------------|-----------------------------------|------------------------|--|--|-------------------------|---------------------------|--------------|
| DRAWING NO. D3582 | TITLE BK 117 SKIDTUBE ASSEMBLY | REV. A | DART AEROSPACE USA, INC ENGINEERING ORDER | | D.E.O. NO. D3582-A-1 | SHEET NO. SHEET 1 OF 1 | SCALE NTS |
| DRAWN <i>PH</i> | CHECKED <i>B</i> | MFG. APPR. <i>B</i> | APPROVED <i>MD</i> | | DE APPR. <i>MD</i> | | |
| DATE 09.04.06 | DATE 04.04.06 | DATE 09.04.06 | DATE 12/24/06 | | DATE 09.04.06 | | |

FOR EASE OF MANUFACTURE AND TO ENSURE THE FIT OF BRISTOL WIRESTRIKE SKID GEAR DEFLECTOR:
UPDATE DIMENSIONING OF 2 FWD HOLES ON SHEET 1 AS SHOWN

IS:



WAS:



RELEASED
09/04/22 *MD*

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

NO. 263

AWS D17.1.2001
QUALIFICATION TEST RECORD

Name: Barclay Elliott
Job number: B72595
Part number: 5117 762 041
Description: 117
Welding Process: Tig[☒] Mig[]
Base material: Aluminum
Current: AC[☒] DC[]

TEST REQUIREMENTS AND RESULTS

Visual: pass[☒] fail[]
Penetration: pass[☒] fail[]

UNACCEPTABLE

Cracks: pass[☒] fail[]
Undercut: pass[☒] fail[]
Pin holes: pass[☒] fail[]
Overlap (cold lap): pass[☒] fail[]
Porosity (surface): pass[☒] fail[]
Coloration: pass[☒] fail[]

Qualifier Pat Lewis Date of Test Coupon 11-08-17
Welder Barclay Elliott Date of Test Coupon 11-08-17

The above named individual is qualified in accordance with AWS D17.1.2001 to weld